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Substitute for form 1449A/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	1	of	5
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**Complete if Known**

Application Number	10/086,484
Filing Date	March 1, 2002
First Named Inventor	Huakun Xu
Group Art Unit	3732
Examiner Name	Paul Marcantoni
Attorney Docket Number	10118.00011

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## U.S. PATENT DOCUMENTS

U.S. PATENT DOCUMENTS						CLASS	SUB CLASS
Examiner Initials *	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Relevant Figures Appear		
		Number - Kind Code <sup>2</sup> (if known)					
<i>Am</i>		US-4,512,038	4/23/85	Alexander et al.	—	—	
<i>Am</i>		US-4,655,777	4/7/87	Dunn et al.	—	—	
<i>Am</i>		US- 4,963,151	10/16/90	Ducheyne et al.	—	—	
<i>Am</i>		US- 5,181,930	1/26/93	Dumbleton et al.	—	—	
<i>Am</i>		US- 5,192,330	3/9/93	Chang et al.	—	—	
<i>Am</i>		US-5,525,148	6/11/96	Chow et al.	—	—	
<i>Am</i>		US-5,545,254	8/13/96	Chow et al.	—	—	
<i>Am</i>		US-5,556,687	9/17/96	McMillin	—	—	
<i>Am</i>		US-5,652,056	7/29/97	Pepin	—	—	
<i>Am</i>		US- 5,721,049	2/24/98	Marcolongo et al.	—	—	
<i>Am</i>		US- 5,766,618	6/16/98	Laurencin et al.	—	—	
<i>Am</i>		US- 5,976,234	11/2/99	Chow et al.	—	—	
<i>Am</i>		US- 5,997,624	12/7/99	Chow et al.	—	—	
<i>Am</i>		US- 6,077,989	6/20/00	Kandel et al.	—	—	
<i>Am</i>		US- 6,136,029	10/24/00	Johnson et al.	—	—	
<i>Am</i>		US- 6,207,098	3/27/01	Nakanishi et al.	—	—	

## FOREIGN PATENT DOCUMENTS

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Signature**

Date  
Considered

8/26/03

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<sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the Reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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


Sheet	2	of	5
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**Complete if Known**

Application Number	10/086,484
Filing Date	March 1, 2002
First Named Inventor	Huakun Xu
Group Art Unit	3732
Examiner Name	Paul Mancini
Attorney Docket Number	10118.00011

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U.S. PATENT DOCUMENTS						CLASS	SUBCLASS
Examiner Initials *	Cite No. 1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
		Number - Kind Code <sup>2</sup> (if known)					
  		US- 6,214,008	4/10/01	III	—	—	
		US- 6,281,256	8/28/01	Harris et al.	—	—	
		US- 6,281,257	8/28/01	Ma et al.	—	—	
		US- 6,287,341	9/11/01	Lee et al.	—	—	
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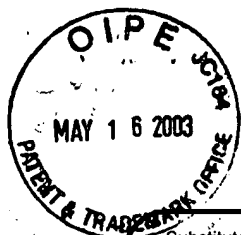
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PTO/SB/08B(10-01)

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Sheet 3 of 5

**Complete if Known**

Application Number	10/086,484
Filing Date	March 1, 2002
First Named Inventor	Huakun Xu
Group Art Unit	3732
Examiner Name	Paul Munitz
Attorney Docket Number	10118.00011

**RECEIVED****MAY 27 2003****TECHNOLOGY CENTER #3700****OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
<i>On</i>	/	Brown and Chow, "A New Calcium Phosphate Water Setting Cement", ppg. 352-379 in Brown, Cements Research Progress, American Ceramic Society, 1986.	
<i>On</i>	/	Ginebra et al., "Setting Reaction and Hardening of an Apatitic Calcium Phosphate Cement", <i>J. Dent. Res.</i> 76:905-912, 1997.	
<i>On</i>	/	Constantz et al., "Histological, Chemical and Crystallographic Analysis of Four Calcium Phosphate Cements in Different Rabbit Osseous Sites", <i>J. Biomed. Mater. Res. [Appl. Biomater.]</i> 43:451-461, 1998.	
	/	Miyamoto et al., "Histological and Compositional Evaluations of Three Types of Calcium Phosphate Cements When Implanted in Subcutaneous Tissue Immediately After Mixing", <i>Biomed. Mater. Res. [Appl. Biomater.]</i> 48:36-42.	
<i>On</i>	/	Lee et al., "Alpha-BSM(R): A Biomimetic Bone Substitute and Drug Delivery Vehicle", <i>Clin. Orthop. Rel. Res.</i> 367:396-405, 1999.	
<i>On</i>	/	Ishikawa et al., "Reaction of Calcium Phosphate Cements With Different Amounts of Tetracalcium Phosphate and Dicalcium Phosphate Anhydrous", <i>J. Biomed. Mater. Res.</i> , 46:504-510, 1999.	
<i>On</i>	/	Matsuya et al., "Effects of Mixing Ratio and Ph on The Reaction Between Ca <sub>4</sub> [PO <sub>4</sub> ] <sub>2</sub> O and CaHPO <sub>4</sub> ", <i>J. Mater. Sci.: Mater. in Med.</i> 11:305-311, 2000.	
<i>On</i>	/	Takagi et al., "Morphological and Phase Characterizations of Retrieved Calcium Phosphate Cement Implants", <i>J. Biomed Mater. Res. [Appl. Biomater.]</i> 58:36-41, 2001.	
<i>On</i>	/	Shindo et al., "Facial Skeletal Augmentation Using Hydroxyapatite Cement", <i>Arch. Otolaryngol. Head Neck Surg.</i> 119:185-190, 1993.	
<i>On</i>	/	Sugawara et al., "In Vitro Evaluation of the Sealing Ability of a Calcium Phosphate Cement When Used as a Root Canal Sealer-Filler", <i>J. Endodont.</i> , 16: 162-165, 1990.	
<i>On</i>	/	Chohayeb et al., "Evaluation of Calcium Phosphate as a Root Canal Sealer-Filler Material", <i>J. Endodont.</i> 13:384-387, 1987.	

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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 4 of 5

### Complete if Known

Application Number	10/086,484
Filing Date	March 1, 2002
First Named Inventor	Huakun Xu
Group Art Unit	3732
Examiner Name	Paul Martin
Attorney Docket Number	10118.00011

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Ch	/	Costantino et al., "Experimental Hydroxyapatite Cement Cranioplasty", <i>Plast. Reconstr. Surg.</i> 90:174-191, 1992.	
Ch	/	Friedman et al., "BoneSource™ Hydroxyapatite Cement: A Novel Biomaterial For Craniofacial Skeletal Tissue Engineering and Reconstruction", <i>J. Biomed. Mater. Res. [appl. Biomater]</i> 43:428-432, 1998.	
Ch	/	LeGeros, "Biodegradation and Bioresorption of Calcium Phosphate Ceramics", <i>Clin. Mater.</i> 14:65-88, 1993.	
Ch	/	Simske et al., "Porous Materials for Bone Engineering", <i>Mater. Sci. Forum</i> 250:151-182, 1997.	
Ch	/	Suchanek et al., "Processing and Properties of Hydroxyapatite-Based Biomaterials For Use as Hard Tissue Replacement Implants", <i>J. Mater. Sci</i> 13:94-117, 1998.	
Ch	/	Xu et al., "Strong and Macroporous Calcium Phosphate Cement: Effects of Porosity and Fiber Reinforcement on Mechanical Properties", <i>J. Biomed. Mater. Res.</i> 57:457-466, 2001.	
Ch	/	Xu et al., "Reinforcement of a Self-Setting Calcium Phosphate Cement With Different Fibers", <i>J. Biomed. Mater. Res.</i> 52:107-114, 2000.	
Ch	/	Xu et al., "Effects of Fiber Length and Volume Fraction on the Reinforcement of Calcium Phosphate Cement", <i>J. Mater. Sci; Mater. In Med</i> 12:57-65, 2001.	
Ch	/	Von Gonetn et al., "Load-Bearing Behavior of a Simulated Craniofacial Structure Fabricated From a Hydroxyapatite Cement and Bioresorbable Fiber-Mesh", <i>J. Mater. Sci.: Mater. In Med</i> 11:95-100, 2000.	
Ch	/	Takagi et al., "Formation of Macropores in Calcium Phosphate Cement Implants", <i>J. Mater. Sci.: Mater. In Med.</i> 12:135-139, 2001.	
Ch	/	Chow, "Calcium Phosphate Cements" Chemistry, Properties, and Application", <i>Mat. Res. Symp. Proc.</i> 599:27-37, 2000.	

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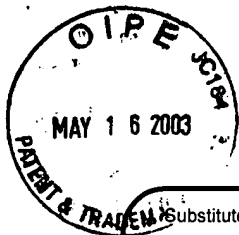
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<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/086,484
		Filing Date	March 1, 2002
		First Named Inventor	Huakun Xu
		Group Art Unit	3732
		Examiner Name	Paul Morata
Sheet 5 of 5	Attorney Docket Number	10018.00011	

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CM	/	Xu et al., "Calcium Phosphate Cement Containing Resorbable Fibers For Short-Term Reinforcement and Macroporosity", <i>Biomaterials</i> 23:193-202, 2002.	
<del>CM</del>	/	<del>Chow et al., "Calcium Phosphate Cements", <i>Cements Research Progress</i>, ppg. 215-238.</del>	
CM	/	Chang et al., "Osteoconduction at Porous Hydroxyapatite With Various Pore Configurations", <i>Biomaterials</i> 21:1291-1298, 2000.	
CM	/	Matsuya et al., "Effect of Fluoride on Apatite Formation From Ca <sub>4</sub> (PO <sub>4</sub> ) <sub>2</sub> O in 0.1 mol L <sup>-1</sup> KH <sub>2</sub> PO <sub>4</sub> ", <i>J. Mater. Sci.: Mater. In Med.</i> 9:325-331, 1998.	
CM	/	Shors et al., "Porous Hydroxyapatite", <i>An Introduction to Bioceramics</i> , ppg. 181-198 in Hency et al., <i>An Introduction to Bioceramics</i> , World Sci. Pub., NJ, 1993.	

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Examiner Signature		Date Considered	8/28/03
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